Release notes for ENDF/B Development n-046_Pd_110 evaluation

April 26, 2017

- `checkr` Warnings:

  1. A previous error halted parsing of the current section
     MAT=4649, MF= 1, MT=451 (1): Parsing stopped

     ```
     ERROR(S) FOUND IN MAT=4649, MF= 1, MT=451
         SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER     292 TO     426
     ```

- `checkr` Errors:

  1. A variable is outside the allowed ENDF range
     MAT=4649, MF= 1, MT=451 (0): Variable range

     ```
     ERROR(S) FOUND IN MAT=4649, MF= 1, MT=451
         MOD =     1 OUT OF RANGE     0 -     0           RECORD NUMBER     292
     ```

  2. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=4649, MF= 2, MT=151 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT=4649, MF= 2, MT=151
         SECTION  2/151 NOT IN DIRECTORY               RECORD NUMBER     428
     ```

  3. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=4649, MF= 3, MT= 1 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT=4649, MF= 3, MT=  1
         SECTION  3/  1 NOT IN DIRECTORY               RECORD NUMBER     516
     ```

  4. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=4649, MF= 3, MT= 2 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT=4649, MF= 3, MT=  2
         SECTION  3/  2 NOT IN DIRECTORY               RECORD NUMBER     567
     ```

  5. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=4649, MF= 3, MT= 4 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT=4649, MF= 3, MT=  4
         SECTION  3/  4 NOT IN DIRECTORY               RECORD NUMBER     618
     ```

  6. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=4649, MF= 3, MT= 16 (0): Directory (b)

     ```
     ERROR(S) FOUND IN MAT=4649, MF= 3, MT= 16
         SECTION  3/ 16 NOT IN DIRECTORY               RECORD NUMBER     657
     ```

  7. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=4649, MF= 3, MT= 17 (0): Directory (b)

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```
        ERROR(S) FOUND IN MAT=4649, MF= 3, MT= 17
            SECTION  3/ 17 NOT IN DIRECTORY                 RECORD NUMBER     673
```

8. Missing a section in directory so your directory is messed up. This error will break everything else
   $MAT=4649, MF= 3, MT= 22$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4649, MF= 3, MT= 22
            SECTION  3/ 22 NOT IN DIRECTORY                 RECORD NUMBER     685
```

9. Missing a section in directory so your directory is messed up. This error will break everything else
   $MAT=4649, MF= 3, MT= 24$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4649, MF= 3, MT= 24
            SECTION  3/ 24 NOT IN DIRECTORY                 RECORD NUMBER     697
```

10. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=4649, MF= 3, MT= 28$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4649, MF= 3, MT= 28
            SECTION  3/ 28 NOT IN DIRECTORY                 RECORD NUMBER     705
```

11. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=4649, MF= 3, MT= 32$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4649, MF= 3, MT= 32
            SECTION  3/ 32 NOT IN DIRECTORY                 RECORD NUMBER     715
```

12. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=4649, MF= 3, MT= 37$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4649, MF= 3, MT= 37
            SECTION  3/ 37 NOT IN DIRECTORY                 RECORD NUMBER     721
```

13. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=4649, MF= 3, MT= 41$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4649, MF= 3, MT= 41
            SECTION  3/ 41 NOT IN DIRECTORY                 RECORD NUMBER     728
```

14. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=4649, MF= 3, MT= 51$ (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4649, MF= 3, MT= 51
            SECTION  3/ 51 NOT IN DIRECTORY                 RECORD NUMBER     735
```

15. Missing a section in directory so your directory is messed up. This error will break everything else
    $MAT=4649, MF= 3, MT= 52$ (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4649, MF= 3, MT= 52
         SECTION  3/ 52 NOT IN DIRECTORY                  RECORD NUMBER      774
```

16. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT= 53 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4649, MF= 3, MT= 53
         SECTION  3/ 53 NOT IN DIRECTORY                  RECORD NUMBER      809
```

17. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT= 54 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4649, MF= 3, MT= 54
         SECTION  3/ 54 NOT IN DIRECTORY                  RECORD NUMBER      843
```

18. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT= 55 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4649, MF= 3, MT= 55
         SECTION  3/ 55 NOT IN DIRECTORY                  RECORD NUMBER      877
```

19. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT= 56 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4649, MF= 3, MT= 56
         SECTION  3/ 56 NOT IN DIRECTORY                  RECORD NUMBER      910
```

20. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT= 57 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4649, MF= 3, MT= 57
         SECTION  3/ 57 NOT IN DIRECTORY                  RECORD NUMBER      942
```

21. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT= 58 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4649, MF= 3, MT= 58
         SECTION  3/ 58 NOT IN DIRECTORY                  RECORD NUMBER      974
```

22. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT= 59 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4649, MF= 3, MT= 59
         SECTION  3/ 59 NOT IN DIRECTORY                  RECORD NUMBER     1005
```

23. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT= 60 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=4649, MF= 3, MT= 60
          SECTION  3/ 60 NOT IN DIRECTORY              RECORD NUMBER    1035
```

24. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT= 61 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=4649, MF= 3, MT= 61
          SECTION  3/ 61 NOT IN DIRECTORY              RECORD NUMBER    1065
```

25. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT= 62 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=4649, MF= 3, MT= 62
          SECTION  3/ 62 NOT IN DIRECTORY              RECORD NUMBER    1094
```

26. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT= 63 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=4649, MF= 3, MT= 63
          SECTION  3/ 63 NOT IN DIRECTORY              RECORD NUMBER    1123
```

27. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT= 64 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=4649, MF= 3, MT= 64
          SECTION  3/ 64 NOT IN DIRECTORY              RECORD NUMBER    1151
```

28. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT= 65 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=4649, MF= 3, MT= 65
          SECTION  3/ 65 NOT IN DIRECTORY              RECORD NUMBER    1178
```

29. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT= 66 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=4649, MF= 3, MT= 66
          SECTION  3/ 66 NOT IN DIRECTORY              RECORD NUMBER    1205
```

30. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT= 67 (0): Directory (b)

```
       ERROR(S) FOUND IN MAT=4649, MF= 3, MT= 67
          SECTION  3/ 67 NOT IN DIRECTORY              RECORD NUMBER    1231
```

31. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT= 68 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4649, MF= 3, MT= 68
         SECTION  3/ 68 NOT IN DIRECTORY                   RECORD NUMBER    1257
```

32. Missing a section in directory so your directory is messed up. This error will break everything else
   $MAT=4649, MF=3, MT=69$ (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4649, MF= 3, MT= 69
         SECTION  3/ 69 NOT IN DIRECTORY                   RECORD NUMBER    1282
```

33. Missing a section in directory so your directory is messed up. This error will break everything else
   $MAT=4649, MF=3, MT=70$ (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4649, MF= 3, MT= 70
         SECTION  3/ 70 NOT IN DIRECTORY                   RECORD NUMBER    1307
```

34. Missing a section in directory so your directory is messed up. This error will break everything else
   $MAT=4649, MF=3, MT=71$ (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4649, MF= 3, MT= 71
         SECTION  3/ 71 NOT IN DIRECTORY                   RECORD NUMBER    1331
```

35. Missing a section in directory so your directory is messed up. This error will break everything else
   $MAT=4649, MF=3, MT=72$ (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4649, MF= 3, MT= 72
         SECTION  3/ 72 NOT IN DIRECTORY                   RECORD NUMBER    1355
```

36. Missing a section in directory so your directory is messed up. This error will break everything else
   $MAT=4649, MF=3, MT=73$ (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4649, MF= 3, MT= 73
         SECTION  3/ 73 NOT IN DIRECTORY                   RECORD NUMBER    1379
```

37. Missing a section in directory so your directory is messed up. This error will break everything else
   $MAT=4649, MF=3, MT=74$ (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4649, MF= 3, MT= 74
         SECTION  3/ 74 NOT IN DIRECTORY                   RECORD NUMBER    1402
```

38. Missing a section in directory so your directory is messed up. This error will break everything else
   $MAT=4649, MF=3, MT=91$ (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4649, MF= 3, MT= 91
         SECTION  3/ 91 NOT IN DIRECTORY                   RECORD NUMBER    1425
```

39. Missing a section in directory so your directory is messed up. This error will break everything else
   $MAT=4649, MF=3, MT=102$ (0): Directory (b)

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```
    ERROR(S) FOUND IN MAT=4649, MF= 3, MT=102
        SECTION  3/102 NOT IN DIRECTORY                    RECORD NUMBER    1448
```

40. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT=103 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=4649, MF= 3, MT=103
        SECTION  3/103 NOT IN DIRECTORY                    RECORD NUMBER    1472
```

41. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT=104 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=4649, MF= 3, MT=104
        SECTION  3/104 NOT IN DIRECTORY                    RECORD NUMBER    1486
```

42. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT=107 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=4649, MF= 3, MT=107
        SECTION  3/107 NOT IN DIRECTORY                    RECORD NUMBER    1497
```

43. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT=650 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=4649, MF= 3, MT=650
        SECTION  3/650 NOT IN DIRECTORY                    RECORD NUMBER    1506
```

44. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT=651 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=4649, MF= 3, MT=651
        SECTION  3/651 NOT IN DIRECTORY                    RECORD NUMBER    1517
```

45. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT=652 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=4649, MF= 3, MT=652
        SECTION  3/652 NOT IN DIRECTORY                    RECORD NUMBER    1528
```

46. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT=653 (0): Directory (b)

```
    ERROR(S) FOUND IN MAT=4649, MF= 3, MT=653
        SECTION  3/653 NOT IN DIRECTORY                    RECORD NUMBER    1539
```

47. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT=654 (0): Directory (b)

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```
ERROR(S) FOUND IN MAT=4649, MF= 3, MT=654
    SECTION  3/654 NOT IN DIRECTORY                RECORD NUMBER    1549
```

48. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT=699 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4649, MF= 3, MT=699
    SECTION  3/699 NOT IN DIRECTORY                RECORD NUMBER    1559
```

49. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT=800 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4649, MF= 3, MT=800
    SECTION  3/800 NOT IN DIRECTORY                RECORD NUMBER    1569
```

50. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT=801 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4649, MF= 3, MT=801
    SECTION  3/801 NOT IN DIRECTORY                RECORD NUMBER    1578
```

51. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT=802 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4649, MF= 3, MT=802
    SECTION  3/802 NOT IN DIRECTORY                RECORD NUMBER    1587
```

52. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT=803 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4649, MF= 3, MT=803
    SECTION  3/803 NOT IN DIRECTORY                RECORD NUMBER    1596
```

53. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT=804 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4649, MF= 3, MT=804
    SECTION  3/804 NOT IN DIRECTORY                RECORD NUMBER    1605
```

54. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT=805 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4649, MF= 3, MT=805
    SECTION  3/805 NOT IN DIRECTORY                RECORD NUMBER    1614
```

55. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT=806 (0): Directory (b)

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```
     ERROR(S) FOUND IN MAT=4649, MF= 3, MT=806
        SECTION  3/806 NOT IN DIRECTORY                    RECORD NUMBER    1623
```

56. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT=807 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=4649, MF= 3, MT=807
        SECTION  3/807 NOT IN DIRECTORY                    RECORD NUMBER    1632
```

57. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT=808 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=4649, MF= 3, MT=808
        SECTION  3/808 NOT IN DIRECTORY                    RECORD NUMBER    1641
```

58. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT=809 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=4649, MF= 3, MT=809
        SECTION  3/809 NOT IN DIRECTORY                    RECORD NUMBER    1650
```

59. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT=810 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=4649, MF= 3, MT=810
        SECTION  3/810 NOT IN DIRECTORY                    RECORD NUMBER    1659
```

60. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT=811 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=4649, MF= 3, MT=811
        SECTION  3/811 NOT IN DIRECTORY                    RECORD NUMBER    1668
```

61. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT=812 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=4649, MF= 3, MT=812
        SECTION  3/812 NOT IN DIRECTORY                    RECORD NUMBER    1677
```

62. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT=813 (0): Directory (b)

```
     ERROR(S) FOUND IN MAT=4649, MF= 3, MT=813
        SECTION  3/813 NOT IN DIRECTORY                    RECORD NUMBER    1686
```

63. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT=814 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4649, MF= 3, MT=814
            SECTION  3/814 NOT IN DIRECTORY              RECORD NUMBER    1695
```

64. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT=815 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4649, MF= 3, MT=815
            SECTION  3/815 NOT IN DIRECTORY              RECORD NUMBER    1704
```

65. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT=816 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4649, MF= 3, MT=816
            SECTION  3/816 NOT IN DIRECTORY              RECORD NUMBER    1713
```

66. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT=817 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4649, MF= 3, MT=817
            SECTION  3/817 NOT IN DIRECTORY              RECORD NUMBER    1722
```

67. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT=818 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4649, MF= 3, MT=818
            SECTION  3/818 NOT IN DIRECTORY              RECORD NUMBER    1731
```

68. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT=819 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4649, MF= 3, MT=819
            SECTION  3/819 NOT IN DIRECTORY              RECORD NUMBER    1740
```

69. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 3, MT=849 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4649, MF= 3, MT=849
            SECTION  3/849 NOT IN DIRECTORY              RECORD NUMBER    1749
```

70. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 4, MT= 2 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4649, MF= 4, MT=  2
            SECTION  4/  2 NOT IN DIRECTORY              RECORD NUMBER    1759
```

71. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT= 16 (0): Directory (b)

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```
        ERROR(S) FOUND IN MAT=4649, MF= 6, MT= 16
           SECTION  6/ 16 NOT IN DIRECTORY                RECORD NUMBER    2779
```

72. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT= 17 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4649, MF= 6, MT= 17
           SECTION  6/ 17 NOT IN DIRECTORY                RECORD NUMBER    3480
```

73. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT= 22 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4649, MF= 6, MT= 22
           SECTION  6/ 22 NOT IN DIRECTORY                RECORD NUMBER    3788
```

74. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT= 24 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4649, MF= 6, MT= 24
           SECTION  6/ 24 NOT IN DIRECTORY                RECORD NUMBER    4774
```

75. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT= 28 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4649, MF= 6, MT= 28
           SECTION  6/ 28 NOT IN DIRECTORY                RECORD NUMBER    5099
```

76. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT= 32 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4649, MF= 6, MT= 32
           SECTION  6/ 32 NOT IN DIRECTORY                RECORD NUMBER    5726
```

77. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT= 37 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4649, MF= 6, MT= 37
           SECTION  6/ 37 NOT IN DIRECTORY                RECORD NUMBER    5960
```

78. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT= 41 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4649, MF= 6, MT= 41
           SECTION  6/ 41 NOT IN DIRECTORY                RECORD NUMBER    6051
```

79. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT= 51 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4649, MF= 6, MT= 51
           SECTION  6/ 51 NOT IN DIRECTORY                 RECORD NUMBER    6286
```

80. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT= 52 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4649, MF= 6, MT= 52
           SECTION  6/ 52 NOT IN DIRECTORY                 RECORD NUMBER    6415
```

81. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT= 53 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4649, MF= 6, MT= 53
           SECTION  6/ 53 NOT IN DIRECTORY                 RECORD NUMBER    6535
```

82. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT= 54 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4649, MF= 6, MT= 54
           SECTION  6/ 54 NOT IN DIRECTORY                 RECORD NUMBER    6655
```

83. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT= 55 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4649, MF= 6, MT= 55
           SECTION  6/ 55 NOT IN DIRECTORY                 RECORD NUMBER    6775
```

84. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT= 56 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4649, MF= 6, MT= 56
           SECTION  6/ 56 NOT IN DIRECTORY                 RECORD NUMBER    6855
```

85. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT= 57 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4649, MF= 6, MT= 57
           SECTION  6/ 57 NOT IN DIRECTORY                 RECORD NUMBER    6934
```

86. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT= 58 (0): Directory (b)

```
        ERROR(S) FOUND IN MAT=4649, MF= 6, MT= 58
           SECTION  6/ 58 NOT IN DIRECTORY                 RECORD NUMBER    7013
```

87. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT= 59 (0): Directory (b)

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```
      ERROR(S) FOUND IN MAT=4649, MF= 6, MT= 59
         SECTION  6/ 59 NOT IN DIRECTORY                RECORD NUMBER    7094
```

88. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT= 60 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4649, MF= 6, MT= 60
         SECTION  6/ 60 NOT IN DIRECTORY                RECORD NUMBER    7168
```

89. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT= 61 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4649, MF= 6, MT= 61
         SECTION  6/ 61 NOT IN DIRECTORY                RECORD NUMBER    7244
```

90. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT= 62 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4649, MF= 6, MT= 62
         SECTION  6/ 62 NOT IN DIRECTORY                RECORD NUMBER    7316
```

91. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT= 63 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4649, MF= 6, MT= 63
         SECTION  6/ 63 NOT IN DIRECTORY                RECORD NUMBER    7399
```

92. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT= 64 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4649, MF= 6, MT= 64
         SECTION  6/ 64 NOT IN DIRECTORY                RECORD NUMBER    7470
```

93. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT= 65 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4649, MF= 6, MT= 65
         SECTION  6/ 65 NOT IN DIRECTORY                RECORD NUMBER    7540
```

94. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT= 66 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4649, MF= 6, MT= 66
         SECTION  6/ 66 NOT IN DIRECTORY                RECORD NUMBER    7614
```

95. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT= 67 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4649, MF= 6, MT= 67
         SECTION  6/ 67 NOT IN DIRECTORY                    RECORD NUMBER    7687
```

96. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT= 68 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4649, MF= 6, MT= 68
         SECTION  6/ 68 NOT IN DIRECTORY                    RECORD NUMBER    7791
```

97. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT= 69 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4649, MF= 6, MT= 69
         SECTION  6/ 69 NOT IN DIRECTORY                    RECORD NUMBER    7858
```

98. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT= 70 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4649, MF= 6, MT= 70
         SECTION  6/ 70 NOT IN DIRECTORY                    RECORD NUMBER    7921
```

99. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT= 71 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4649, MF= 6, MT= 71
         SECTION  6/ 71 NOT IN DIRECTORY                    RECORD NUMBER    7986
```

100. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT= 72 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4649, MF= 6, MT= 72
         SECTION  6/ 72 NOT IN DIRECTORY                    RECORD NUMBER    8049
```

101. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT= 73 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4649, MF= 6, MT= 73
         SECTION  6/ 73 NOT IN DIRECTORY                    RECORD NUMBER    8116
```

102. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT= 74 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4649, MF= 6, MT= 74
         SECTION  6/ 74 NOT IN DIRECTORY                    RECORD NUMBER    8178
```

103. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT= 91 (0): Directory (b)

```
      ERROR(S) FOUND IN MAT=4649, MF= 6, MT= 91
         SECTION  6/ 91 NOT IN DIRECTORY                    RECORD NUMBER    8240
```

104. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=4649, MF= 6, MT=103 (0): Directory (b)$

```
      ERROR(S) FOUND IN MAT=4649, MF= 6, MT=103
         SECTION  6/103 NOT IN DIRECTORY                    RECORD NUMBER    9833
```

105. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=4649, MF= 6, MT=650 (0): Directory (b)$

```
      ERROR(S) FOUND IN MAT=4649, MF= 6, MT=650
         SECTION  6/650 NOT IN DIRECTORY                    RECORD NUMBER   10615
```

106. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=4649, MF= 6, MT=651 (0): Directory (b)$

```
      ERROR(S) FOUND IN MAT=4649, MF= 6, MT=651
         SECTION  6/651 NOT IN DIRECTORY                    RECORD NUMBER   10629
```

107. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=4649, MF= 6, MT=652 (0): Directory (b)$

```
      ERROR(S) FOUND IN MAT=4649, MF= 6, MT=652
         SECTION  6/652 NOT IN DIRECTORY                    RECORD NUMBER   10652
```

108. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=4649, MF= 6, MT=653 (0): Directory (b)$

```
      ERROR(S) FOUND IN MAT=4649, MF= 6, MT=653
         SECTION  6/653 NOT IN DIRECTORY                    RECORD NUMBER   10675
```

109. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=4649, MF= 6, MT=654 (0): Directory (b)$

```
      ERROR(S) FOUND IN MAT=4649, MF= 6, MT=654
         SECTION  6/654 NOT IN DIRECTORY                    RECORD NUMBER   10698
```

110. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=4649, MF= 6, MT=699 (0): Directory (b)$

```
      ERROR(S) FOUND IN MAT=4649, MF= 6, MT=699
         SECTION  6/699 NOT IN DIRECTORY                    RECORD NUMBER   10723
```

111. Missing a section in directory so your directory is messed up. This error will break everything else
$MAT=4649, MF= 6, MT=800 (0): Directory (b)$

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```
ERROR(S) FOUND IN MAT=4649, MF= 6, MT=800
    SECTION  6/800 NOT IN DIRECTORY                RECORD NUMBER   11138
```

112. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=4649, MF= 6, MT=801 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4649, MF= 6, MT=801
    SECTION  6/801 NOT IN DIRECTORY                RECORD NUMBER   11152
```

113. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=4649, MF= 6, MT=802 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4649, MF= 6, MT=802
    SECTION  6/802 NOT IN DIRECTORY                RECORD NUMBER   11175
```

114. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=4649, MF= 6, MT=803 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4649, MF= 6, MT=803
    SECTION  6/803 NOT IN DIRECTORY                RECORD NUMBER   11198
```

115. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=4649, MF= 6, MT=804 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4649, MF= 6, MT=804
    SECTION  6/804 NOT IN DIRECTORY                RECORD NUMBER   11221
```

116. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=4649, MF= 6, MT=805 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4649, MF= 6, MT=805
    SECTION  6/805 NOT IN DIRECTORY                RECORD NUMBER   11244
```

117. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=4649, MF= 6, MT=806 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4649, MF= 6, MT=806
    SECTION  6/806 NOT IN DIRECTORY                RECORD NUMBER   11267
```

118. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=4649, MF= 6, MT=807 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4649, MF= 6, MT=807
    SECTION  6/807 NOT IN DIRECTORY                RECORD NUMBER   11292
```

119. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=4649, MF= 6, MT=808 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4649, MF= 6, MT=808
     SECTION  6/808 NOT IN DIRECTORY                RECORD NUMBER   11319
```

120. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT=809 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4649, MF= 6, MT=809
     SECTION  6/809 NOT IN DIRECTORY                RECORD NUMBER   11344
```

121. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT=810 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4649, MF= 6, MT=810
     SECTION  6/810 NOT IN DIRECTORY                RECORD NUMBER   11371
```

122. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT=811 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4649, MF= 6, MT=811
     SECTION  6/811 NOT IN DIRECTORY                RECORD NUMBER   11394
```

123. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT=812 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4649, MF= 6, MT=812
     SECTION  6/812 NOT IN DIRECTORY                RECORD NUMBER   11425
```

124. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT=813 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4649, MF= 6, MT=813
     SECTION  6/813 NOT IN DIRECTORY                RECORD NUMBER   11448
```

125. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT=814 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4649, MF= 6, MT=814
     SECTION  6/814 NOT IN DIRECTORY                RECORD NUMBER   11475
```

126. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT=815 (0): Directory (b)

```
ERROR(S) FOUND IN MAT=4649, MF= 6, MT=815
     SECTION  6/815 NOT IN DIRECTORY                RECORD NUMBER   11500
```

127. Missing a section in directory so your directory is messed up. This error will break everything else
    MAT=4649, MF= 6, MT=816 (0): Directory (b)

```
         ERROR(S) FOUND IN MAT=4649, MF= 6, MT=816
            SECTION  6/816 NOT IN DIRECTORY                RECORD NUMBER   11514
```

128. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=4649, MF= 6, MT=817 (0): Directory (b)

```
         ERROR(S) FOUND IN MAT=4649, MF= 6, MT=817
            SECTION  6/817 NOT IN DIRECTORY                RECORD NUMBER   11545
```

129. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=4649, MF= 6, MT=818 (0): Directory (b)

```
         ERROR(S) FOUND IN MAT=4649, MF= 6, MT=818
            SECTION  6/818 NOT IN DIRECTORY                RECORD NUMBER   11572
```

130. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=4649, MF= 6, MT=819 (0): Directory (b)

```
         ERROR(S) FOUND IN MAT=4649, MF= 6, MT=819
            SECTION  6/819 NOT IN DIRECTORY                RECORD NUMBER   11597
```

131. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=4649, MF= 6, MT=849 (0): Directory (b)

```
         ERROR(S) FOUND IN MAT=4649, MF= 6, MT=849
            SECTION  6/849 NOT IN DIRECTORY                RECORD NUMBER   11611
```

132. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=4649, MF=12, MT=102 (0): Directory (b)

```
         ERROR(S) FOUND IN MAT=4649, MF=12, MT=102
            SECTION 12/102 NOT IN DIRECTORY                RECORD NUMBER   12633
```

133. Missing a gamma spectrum for continuum of gammas
     MAT=4649, MF=12, MT=102 (1): No gamma spectrum

```
         ERROR(S) FOUND IN MAT=4649, MF=12, MT=102
            CONTINUUM PHOTONS REQUIRE A SECTION IN MF=15
```

134. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=4649, MF=14, MT=102 (0): Directory (b)

```
         ERROR(S) FOUND IN MAT=4649, MF=14, MT=102
            SECTION 14/102 NOT IN DIRECTORY                RECORD NUMBER   12650
```

135. Missing a section in directory so your directory is messed up. This error will break everything else
     MAT=4649, MF=15, MT=102 (0): Directory (b)

```
         ERROR(S) FOUND IN MAT=4649, MF=15, MT=102
            SECTION 15/102 NOT IN DIRECTORY                RECORD NUMBER   12653
```

- `psyche` Warnings:

    1. Non-threshold reaction with Q value differing from PSYCHE's expectations
       FILE 3 / SECTION 107 / THE CALCULATED Q 9.47233E+05 DISSAGREES WITH THE GIVEN Q 1.01147E+06 (0): Iffy Q

       ```
       FILE  3
          SECTION 107
                  THE CALCULATED Q  9.47233E+05 DISSAGREES WITH THE GIVEN Q  1.01147E+06
       ```

- `groupie` Errors:

    1. Very small elastic cross section found
       0: Small elastic

       ```
       Multi-Group and Multi-Band Parameters from ENDF/B Data (GROUPIE 2015-2)
       ----------------------------------------------------------------------
       ENDF/B Input and Output Data Filenames
       ENDFB.IN
       ENDFB.OUT
       ... [97 more lines]
       ```

- `fudge-4.0` Warnings:

    1. Missing a channel with a particular angular momenta combination
       resonances / resolved / MultiLevel_BreitWigner (Error # 0): missingResonanceChannel

       ```
       WARNING: Missing a channel with angular momenta combination L = 0, J = 1.5 and S = 1.5 for "capture"
       WARNING: Missing a channel with angular momenta combination L = 1, J = 0.5 and S = 1.5 for "capture"
       WARNING: Missing a channel with angular momenta combination L = 1, J = 1.5 and S = 1.5 for "capture"
       WARNING: Missing a channel with angular momenta combination L = 1, J = 2.5 and S = 1.5 for "capture"
       ```

- `fudge-4.0` Errors:

    1. Calculated and tabulated Q values disagree.
       reaction label 26: n[multiplicity:'2'] + Pd109 + gamma (Error # 0): Q mismatch

       ```
       WARNING: Calculated and tabulated Q-values disagree: -8456088.279769897 eV vs -8811380. eV!
       ```

    2. Calculated and tabulated Q values disagree.
       reaction label 27: n[multiplicity:'3'] + Pd108 + gamma (Error # 0): Q mismatch

       ```
       WARNING: Calculated and tabulated Q-values disagree: -15033045.83070374 eV vs -1.49648e7 eV!
       ```

    3. Calculated and tabulated Q values disagree.
       reaction label 28: n[multiplicity:'4'] + Pd107 + gamma (Error # 0): Q mismatch

       ```
       WARNING: Calculated and tabulated Q-values disagree: -24428699.47485352 eV vs -2.41851e7 eV!
       ```

    4. Calculated and tabulated Q values disagree.
       reaction label 29: n + H1 + Rh109 + gamma (Error # 0): Q mismatch

       ```
       WARNING: Calculated and tabulated Q-values disagree: -11149683.83016968 eV vs -1.0613e7 eV!
       ```

    5. Calculated and tabulated Q values disagree.
       reaction label 30: n + H2 + Rh108 + gamma (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -17235248.64892578 eV vs -1.64008e7 eV!
```

6. Calculated and tabulated Q values disagree.
   reaction label 31: H2 + Rh109 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -9436856.124267578 eV vs -8388444. eV!
```

7. Calculated and tabulated Q values disagree.
   reaction label 32: H2 + (Rh109_e1 ->Rh109 + gamma) (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -9643056.124267578 eV vs -8594644. eV!
```

8. Calculated and tabulated Q values disagree.
   reaction label 33: H2 + (Rh109_e2 ->Rh109 + gamma) (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -9810856.124267578 eV vs -8762444. eV!
```

9. Calculated and tabulated Q values disagree.
   reaction label 34: H2 + (Rh109_e3 ->Rh109 + gamma) (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -9863356.124267578 eV vs -8814944. eV!
```

10. Calculated and tabulated Q values disagree.
    reaction label 35: H2 + (Rh109_e4 ->Rh109 + gamma) (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -10002856.12426758 eV vs -8954444. eV!
```

11. Calculated and tabulated Q values disagree.
    reaction label 36: H2 + (Rh109_c ->Rh109 + gamma) (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -10002852.12426758 eV vs -8954440. eV!
```

12. Calculated and tabulated Q values disagree.
    reaction label 37: He4 + Ru107 (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -1040714.284057617 eV vs 1011470. eV!
```

13. Calculated and tabulated Q values disagree.
    reaction label 38: He4 + (Ru107_e1 ->Ru107 + gamma) (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -1143443.284057617 eV vs 908741. eV!
```

14. Calculated and tabulated Q values disagree.
    reaction label 39: He4 + (Ru107_e2 ->Ru107 + gamma) (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -1146994.284057617 eV vs 905190. eV!
```

15. Calculated and tabulated Q values disagree.
    reaction label 40: He4 + (Ru107_e3 ->Ru107 + gamma) (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -1182835.284057617 eV vs 869349. eV!
```

16. Calculated and tabulated Q values disagree.
    reaction label 41: He4 + (Ru107_e4 ->Ru107 + gamma) (Error # 0): Q mismatch

```
WARNING: Calculated and tabulated Q-values disagree: -1217714.284057617 eV vs 834470. eV!
```

17. Calculated and tabulated Q values disagree.
    reaction label 42: He4 + (Ru107_e5 ->Ru107 + gamma) (Error # 0): Q mismatch

    `WARNING: Calculated and tabulated Q-values disagree: -1240404.284057617 eV vs 811780. eV!`

18. Calculated and tabulated Q values disagree.
    reaction label 43: He4 + (Ru107_e6 ->Ru107 + gamma) (Error # 0): Q mismatch

    `WARNING: Calculated and tabulated Q-values disagree: -1291324.284057617 eV vs 760860. eV!`

19. Calculated and tabulated Q values disagree.
    reaction label 44: He4 + (Ru107_e7 ->Ru107 + gamma) (Error # 0): Q mismatch

    `WARNING: Calculated and tabulated Q-values disagree: -1332094.284057617 eV vs 720090. eV!`

20. Calculated and tabulated Q values disagree.
    reaction label 45: He4 + (Ru107_e8 ->Ru107 + gamma) (Error # 0): Q mismatch

    `WARNING: Calculated and tabulated Q-values disagree: -1363244.284057617 eV vs 688940. eV!`

21. Calculated and tabulated Q values disagree.
    reaction label 46: He4 + (Ru107_e9 ->Ru107 + gamma) (Error # 0): Q mismatch

    `WARNING: Calculated and tabulated Q-values disagree: -1401054.284057617 eV vs 651130. eV!`

22. Calculated and tabulated Q values disagree.
    reaction label 47: He4 + (Ru107_e10 ->Ru107 + gamma) (Error # 0): Q mismatch

    `WARNING: Calculated and tabulated Q-values disagree: -1469164.284057617 eV vs 583020. eV!`

23. Calculated and tabulated Q values disagree.
    reaction label 48: He4 + (Ru107_e11 ->Ru107 + gamma) (Error # 0): Q mismatch

    `WARNING: Calculated and tabulated Q-values disagree: -1501564.284057617 eV vs 550620. eV!`

24. Calculated and tabulated Q values disagree.
    reaction label 49: He4 + (Ru107_e12 ->Ru107 + gamma) (Error # 0): Q mismatch

    `WARNING: Calculated and tabulated Q-values disagree: -1511544.284057617 eV vs 540640. eV!`

25. Calculated and tabulated Q values disagree.
    reaction label 50: He4 + (Ru107_e13 ->Ru107 + gamma) (Error # 0): Q mismatch

    `WARNING: Calculated and tabulated Q-values disagree: -1531644.284057617 eV vs 520540. eV!`

26. Calculated and tabulated Q values disagree.
    reaction label 51: He4 + (Ru107_e14 ->Ru107 + gamma) (Error # 0): Q mismatch

    `WARNING: Calculated and tabulated Q-values disagree: -1533284.284057617 eV vs 5.189e5 eV!`

27. Calculated and tabulated Q values disagree.
    reaction label 52: He4 + Ru107_e15 (Error # 0): Q mismatch

    `WARNING: Calculated and tabulated Q-values disagree: -1602164.284057617 eV vs 450020. eV!`

28. Calculated and tabulated Q values disagree.
    reaction label 53: He4 + (Ru107_e16 ->Ru107 + gamma) (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: -1623164.284057617 eV vs 429020. eV!
    ```

29. Calculated and tabulated Q values disagree.
    reaction label 54: He4 + (Ru107_e17 ->Ru107 + gamma) (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: -1626684.284057617 eV vs 4.255e5 eV!
    ```

30. Calculated and tabulated Q values disagree.
    reaction label 55: He4 + (Ru107_e18 ->Ru107 + gamma) (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: -1672694.284057617 eV vs 379490. eV!
    ```

31. Calculated and tabulated Q values disagree.
    reaction label 56: He4 + Ru107_e19 (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: -1738914.284057617 eV vs 313270. eV!
    ```

32. Calculated and tabulated Q values disagree.
    reaction label 57: He4 + (Ru107_c ->Ru107 + gamma) (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: -1738914.284057617 eV vs 313270. eV!
    ```

33. Calculated and tabulated Q values disagree.
    reaction label 58: Pd111 + gamma (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: 5711982.682373047 eV vs 5756380. eV!
    ```

34. Calculated and tabulated Q values disagree.
    reaction label 59: n + He4 + Ru106 + gamma (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: -5926454.179016113 eV vs -4443910. eV!
    ```

35. Calculated and tabulated Q values disagree.
    reaction label 60: n[multiplicity:'2'] + He4 + Ru105 + gamma (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: -14382542.45878601 eV vs -1.29093e7 eV!
    ```

36. Calculated and tabulated Q values disagree.
    reaction label 61: n[multiplicity:'2'] + H1 + Rh108 + gamma (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: -18948076.35484314 eV vs -1.86254e7 eV!
    ```

37. Calculated and tabulated Q values disagree.
    reaction label 62: H1 + (Rh110_s ->Rh110 + gamma) (Error # 0): Q mismatch

    ```
    WARNING: Calculated and tabulated Q-values disagree: -4854595.888580322 eV vs -4622650. eV!
    ```

- njoy2012   Warnings:

  1. Evaluation has no unresolved resonance parameters given
     unresr...calculation of unresolved resonance cross sections (0): No URR

```
---message from unresr---mat 4649 has no unresolved parameters
                      copy as is to nout
```

2. Evaluation has no unresolved resonance parameters given
   purr...probabalistic unresolved calculation (0): No URR

```
---message from purr---mat 4649 has no unresolved parameters
                    copy as is to nout
```